

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("7754804").PN.	US-PGPUB; USPAT	OR	OFF	2010/09/09 09:33
L2	5	((("7754804") or ("7297733") or ("7795340") or ("7034068") or ("7084200") or ("20070212321"))).PN.	US-PGPUB; USPAT	OR	OFF	2010/09/09 09:35
L3	0	L2 AND (amphoteric)	US-PGPUB; USPAT	OR	OFF	2010/09/09 09:36
L4	0	L2 AND (ampho\$7)	US-PGPUB; USPAT	OR	OFF	2010/09/09 09:36
L5	5	L2 AND (cationic)	US-PGPUB; USPAT	OR	OFF	2010/09/09 09:36
L6	5	L2 AND (cationic) AND (dispersant OR dispersing)	US-PGPUB; USPAT	OR	ON	2010/09/09 09:36
L7	45	(Gauweiler near5 Werner).in. OR (Ledu near5 Marcin).in. OR (Christoffels near5 Lysanderin).in. OR (Gotsche near5 Michaelin).in. OR (Wood near5 Claudia).in.	US-PGPUB; USPAT	OR	OFF	2010/09/09 09:38
L8	33	L7 AND (ampho\$7)	US-PGPUB; USPAT	OR	OFF	2010/09/09 09:39
L9	33	L7 AND (ampho\$7) AND (cationic)	US-PGPUB; USPAT	OR	OFF	2010/09/09 09:39
L10	33	L7 AND (ampho\$7) AND (cationic)	US-PGPUB; USPAT	OR	ON	2010/09/09 09:39
L11	33	L10 NOT L2	US-PGPUB; USPAT	OR	ON	2010/09/09 09:39
S1	1	"11/427589"	US-PGPUB; USPAT	OR	OFF	2008/11/20 14:49

S2	1	"10/525587"	US-PGPUB; USPAT	OR	OFF	2008/11/20 14:50
S3	37	(Gauweiler near5 Werner).in. OR (Ledu near5 Marcin). in. OR (Christoffels near5 Lysanderin).in. OR (Gotsche near5 Michaelin).in. OR (Wood near5 Claudia).in.	US-PGPUB; USPAT	OR	OFF	2008/11/20 14:56
S4	15103	(BASF).as.	US-PGPUB; USPAT	OR	OFF	2008/11/20 14:56
S5	29	(S4) AND (S3)	US-PGPUB; USPAT	OR	OFF	2008/11/20 14:56
S6	4347	(vinyl near5 formamide) OR (vinylformamide)	US-PGPUB; USPAT	OR	OFF	2008/11/20 15:28
S7	191	(amphoteric near5 dispersion)	US-PGPUB; USPAT	OR	OFF	2008/11/20 15:29
S8	11	(S6) AND (S7)	US-PGPUB; USPAT	OR	OFF	2008/11/20 15:29
S9	0	(water near5 swellable near5 cationic near5 polymer)	US-PGPUB; USPAT	OR	ON	2008/11/20 15:30
S10	76	(water near5 swellable near5 cationic near5 polymer)	US-PGPUB; USPAT	OR	ON	2008/11/20 15:30
S11	35	(water near5 swellable near5 cationic near5 polymer) AND (amphoteric dispersant)	US-PGPUB; USPAT	OR	ON	2008/11/20 15:35
S12	1	(water near5 swellable near5 cationic near5 polymer) AND (amphoteric near5 dispersant)	US-PGPUB; USPAT	OR	ON	2008/11/20 15:36
S13	3	(amphoteric near5 dispersant) near5 ("PH")	US-PGPUB; USPAT	OR	ON	2008/11/20 15:36
S14	16	(amphoteric near5 dispersant) SAME ("PH")	US-PGPUB; USPAT	OR	ON	2008/11/20 15:36
S15	861	(dimethylaminoethylacrylate)	US-PGPUB; USPAT	OR	OFF	2008/11/20 15:40
S16	23	(dimethylaminoethylacrylate) SAME (dispersant)	US-PGPUB; USPAT	OR	OFF	2008/11/20 15:40

S17	17	(dimethylaminoethylacrylate) SAME (dispersant) AND (cationic near5 (polymer or resin))	US-PGPUB; USPAT	OR	OFF	2008/11/20 16:32
S18	3	(dimethylaminoethylacrylate) AND ((cationic) near5 (polymer or resin)) AND ((amphoteric) near5 ((dispersant) OR (dispersing adj agent)))	US-PGPUB; USPAT	OR	OFF	2008/11/20 16:38
S19	57	((cationic) near5 (polymer or resin)) AND ((amphoteric) near5 ((dispersant) OR (dispersing adj agent)))	US-PGPUB; USPAT	OR	OFF	2008/11/20 16:38
S20	23	(dimethylaminoethylacrylate) SAME ((dispersant) OR (dispersing near5 agent))	US-PGPUB; USPAT	OR	OFF	2008/11/20 16:39
S21	17	(dimethylaminoethylacrylate) SAME ((dispersant) OR (dispersing near5 agent)) AND (cationic near5 (polymer or resin))	US-PGPUB; USPAT	OR	OFF	2008/11/20 16:40
S22	0	(dimethylaminoethylacrylate) SAME amphoteric SAME ((dispersant) OR (dispersing near5 agent)) AND (cationic near5 (polymer or resin))	US-PGPUB; USPAT	OR	OFF	2008/11/20 16:41
S23	184	(( amphoteric SAME ((dispersant) OR (dispersing near5 agent))) AND (cationic near5 (polymer or resin))	US-PGPUB; USPAT	OR	OFF	2008/11/20 16:41
S24	16	(( amphoteric SAME ((dispersant) OR (dispersing near5 agent))) AND (cationic near5 (polymer or resin)) AND (dimethylaminoethylacrylate)	US-PGPUB; USPAT	OR	OFF	2008/11/20 16:42
S25	951	(cationic adj (polymer or resin)) AND (salt) AND (amphoteric near5 disersion OR (dispersing near5 agent))	US-PGPUB; USPAT	OR	OFF	2008/11/20 16:44
S26	15	(cationic adj (polymer or resin)) AND (salt) AND (amphoteric near5 disersion OR (dispersing near5 agent)) AND (dimethylaminoethylacrylate)	US-PGPUB; USPAT	OR	OFF	2008/11/20 16:46
S27	8	(cationic adj (polymer or resin)) AND (salt) AND (amphoteric near5 disersion OR (dispersing near5 agent)) AND (dimethylaminoethylacrylate SAME acrylate)	US-PGPUB; USPAT	OR	OFF	2008/11/20 16:46
S28	16	(cationic adj (polymer or resin)) AND (amphoteric near5 disersion OR (dispersing near5 agent)) AND (dimethylaminoethylacrylate)	US-PGPUB; USPAT	OR	OFF	2008/11/20 16:47

S29	76	(water near5 swellable near5 cationic near5 polymer) (negacitive adj charge)	US-PGPUB; USPAT	OR	ON	2008/11/20 16:51
S30	0	(water near5 swellable near5 cationic near5 polymer) AND (amphoteric near5 (negacitive adj charge))	US-PGPUB; USPAT	OR	ON	2008/11/20 16:51
S31	1	(water near5 swellable near5 cationic near5 polymer) AND (amphoteric near5 charge)	US-PGPUB; USPAT	OR	ON	2008/11/20 16:51
S32	196	(cationic near5 (copolymer or polymer or resin)) AND (amphoteric near5 (dispersant OR (dispersing near5 agent)))	US-PGPUB; USPAT	OR	ON	2008/11/20 16:56
S33	168	(cationic near5 (copolymer or polymer or resin)) AND (amphoteric near5 (dispersant OR (dispersing near5 agent))) AND ((water near5 swellable) OR (water near5 soluble))	US-PGPUB; USPAT	OR	ON	2008/11/20 16:57
S34	192	(cationic near5 (copolymer or polymer or resin)) AND (amphoteric near5 (dispersant OR (dispersing near5 agent) OR (protective near5 colloid)) AND ((water near5 swellable) OR (water near5 soluble)))	US-PGPUB; USPAT	OR	ON	2008/11/20 16:57
S35	27	(cationic near5 (copolymer or polymer or resin)) AND ((water near5 swellable) OR (water near5 soluble)) AND (amphoteric near5 (protective near5 colloid))	US-PGPUB; USPAT	OR	ON	2008/11/20 16:58
S36	5990	(cationic near5 (copolymer or polymer or resin)) AND (amphoteric near5 (dispersant OR (dispersing near5 agent) OR (protective near5 colloid) OR (surfactant)) AND ((water near5 swellable) OR (water near5 soluble)))	US-PGPUB; USPAT	OR	ON	2008/11/20 17:09
S37	5990	(cationic near5 (copolymer or polymer or resin)) AND (amphoteric near5 ((dispersant OR (dispersing near5 agent) OR (protective near5 colloid) OR (surfactant))) AND ((water near5 swellable) OR (water near5 soluble)))	US-PGPUB; USPAT	OR	ON	2008/11/20 17:09

S38	1	(cationic near5 (copolymer or polymer or resin)) AND (amphoteric near5 ((dispersant OR (dispersing near5 agent) OR (protective near5 colloid) OR (surfactant)) SAME dimethylaminoethylmethacrylamide near5 acrylate) AND ((water near5 swellable) OR (water near5 soluble)))	US-PGPUB; USPAT	OR	ON	2008/11/20 17:44
S39	1	(cationic near5 (copolymer or polymer or resin)) AND (amphoteric near5 ((dispersant OR (dispersing near5 agent) OR (protective near5 colloid) OR (surfactant)) SAME dimethylaminoethylmethacrylamide SAME acrylate) AND ((water near5 swellable) OR (water near5 soluble)))	US-PGPUB; USPAT	OR	ON	2008/11/20 17:44
S40	1	(cationic near5 (copolymer or polymer or resin)) AND (amphoteric near5 ((dispersant OR (dispersing near5 agent) OR (protective near5 colloid) OR (surfactant)) SAME dimethylaminoethylmethacrylamide ) AND ((water near5 swellable) OR (water near5 soluble)))	US-PGPUB; USPAT	OR	ON	2008/11/20 17:44
S41	1	(cationic near5 (copolymer or polymer or resin)) AND (amphoteric near5 ((dispersant OR (dispersing near5 agent) OR (protective near5 colloid) OR (surfactant)) SAME dimethylaminoethylmethacrylamide ))	US-PGPUB; USPAT	OR	ON	2008/11/20 17:44
S42	1	(cationic near5 (copolymer or polymer or resin)) AND (amphoteric near5 ((dispersant OR (dispersing near5 agent)) SAME dimethylaminoethylmethacrylamide ))	US-PGPUB; USPAT	OR	ON	2008/11/20 17:45
S43	0	(cationic near5 (copolymer or polymer or resin)) AND (amphoteric near5 ((dispersant OR (dispersing near5 agent)) SAME (dimethylaminoethyl near5 methacrylamide) ))	US-PGPUB; USPAT	OR	ON	2008/11/20 17:45
S44	0	(cationic near5 (copolymer or polymer or resin)) AND (amphoteric near5 ((dispersant OR (dispersing near5 agent)) SAME (dimethylaminoethyl SAME methacrylamide) ))	US-PGPUB; USPAT	OR	ON	2008/11/20 17:45
S45	2	(negativ\$4 adj charg\$3) near5 amphoteric near5 (dispersant OR (dispersing near5 agent))	US-PGPUB; USPAT	OR	OFF	2008/11/20 17:47

S46	1	(water near5 swellable near5 cationic near5 polymer) AND (amphoteric near5 dispersant)	US-PGPUB; USPAT	OR	ON	2008/11/20 17:48
S47	411	(amphoteric near5 dispersant)	US-PGPUB; USPAT	OR	ON	2008/11/20 17:49
S48	1	(amphoteric near5 dispersant) SAME (dimethylaminoethylmethacrylamide)	US-PGPUB; USPAT	OR	ON	2008/11/20 17:50
S49	3	(amphoteric near5 dispersant) SAME (dimethylaminoethylnear5 methacrylamide)	US-PGPUB; USPAT	OR	ON	2008/11/20 17:50
S50	0	(amphoteric near5 dispersant) SAME (dimethylaminoethyl near5 methacrylamide)	US-PGPUB; USPAT	OR	ON	2008/11/20 17:50
S51	3	(amphoteric near5 dispersant) AND (dimethylaminoethyl near5 methacrylamide)	US-PGPUB; USPAT	OR	ON	2008/11/20 17:50
S52	3	(amphoteric near5 dispersant) AND (dimethylaminoethylmethacrylamide)	US-PGPUB; USPAT	OR	ON	2008/11/20 17:50
S53	4	(dispersant OR (dispersing adj agent)) SAME (dimethylaminoethylmethacrylamide)	US-PGPUB; USPAT	OR	ON	2008/11/20 17:51
S54	31	(dispersant OR (dispersing adj agent)) SAME (dimethylaminoethyl near5 methacrylamide)	US-PGPUB; USPAT	OR	ON	2008/11/20 17:51
S55	28	(dispersant OR (dispersing adj agent)) SAME (dimethylaminoethyl near5 methacrylamide) SAME (acrylate)	US-PGPUB; USPAT	OR	ON	2008/11/20 17:51
S56	31	(dispersant OR (dispersing adj agent) OR (protective near5 colloid) OR (surfactant)) SAME (dimethylaminoethyl near5 methacrylamide) SAME (acrylate)	US-PGPUB; USPAT	OR	ON	2008/11/20 17:53
S57	1	("20040087759").PN.	US-PGPUB; USPAT	OR	OFF	2008/11/21 09:41
S58	1	("5470903").PN.	US-PGPUB; USPAT	OR	OFF	2008/12/01 16:35
S59	1	("5934839").PN.	US-PGPUB; USPAT	OR	OFF	2008/12/01 17:15
S60	797	((amphoteric) near5 ((dispersant) OR (dispersing near5 agent)))	US-PGPUB; USPAT	OR	ON	2008/12/02 07:25

S61	35	((amphoteric) near5 ((dispersant) OR (dispersing near5 agent)) SAME (negativ\$3 near5 charge\$2))	US-PGPUB; USPAT	OR	ON	2008/12/02 07:26
S62	1155	((amphoteric) near5 ((dispersant) OR (dispersing near5 agent) OR (surfactant)) SAME (negativ\$3 near5 charge\$2))	US-PGPUB; USPAT	OR	ON	2008/12/02 07:29
S63	10	((amphoteric) near5 ((dispersant) OR (dispersing near5 agent) OR (surfactant)) SAME (negativ\$3 near5 charge\$2) SAME (cationic near5 (copolymer OR polymer)))	US-PGPUB; USPAT	OR	ON	2008/12/02 07:30
S64	1155	((amphoteric) near5 ((dispersant) OR (dispersing near5 agent) OR (surfactant)) SAME (negativ\$3 near5 charge\$2) )	US-PGPUB; USPAT	OR	ON	2008/12/02 07:31
S65	387	(dimethylaminoethylmethacrylamide)	US-PGPUB; USPAT	OR	ON	2008/12/02 07:31
S66	806	(dimethylaminoethylmethacrylamide) OR (dimethylaminoethyl adj methacrylamide)	US-PGPUB; USPAT	OR	ON	2008/12/02 07:32
S67	5	(S64) AND (S66)	US-PGPUB; USPAT	OR	ON	2008/12/02 07:32
S68	106	((amphoteric) near5 ((dispersant) OR (dispersing near5 agent) OR (surfactant)) SAME (negativ\$3 near5 charge\$2) SAME (advantage benefit function use usage gain improve improvement enhance enhancement develop development assist assistance help))	US-PGPUB; USPAT	OR	ON	2008/12/02 07:33
S69	263	((amphoteric) near5 ((dispersant) OR (dispersing near5 agent) OR (surfactant)) SAME (negativ\$3 near5 charge\$2) SAME (ph))	US-PGPUB; USPAT	OR	ON	2008/12/02 07:35
S70	1	("6660285").PN.	US-PGPUB; USPAT	OR	OFF	2008/12/02 07:45
S71	1	"07/855150"	US-PGPUB; USPAT	OR	OFF	2008/12/02 07:50
S72	1	("5,863,526").PN.	US-PGPUB; USPAT	OR	OFF	2008/12/02 07:52

S73	0	"JP 62187702"	US-PGPUB; USPAT	OR	OFF	2008/12/02 07:54
S74	2	"JP 62187702"	EPO; JPO; DERWENT	OR	OFF	2008/12/02 07:54
S75	1	("5470903").PN.	US-PGPUB; USPAT	OR	OFF	2008/12/02 10:10
S76	3	("5011883"   "5326809").PN. OR ("5470903").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/12/02 10:25
S77	1	("4,806,345").PN.	US-PGPUB; USPAT	OR	OFF	2008/12/02 11:00
S78	3	((("5934839") or ("5470903") or ("5149752"))).PN.	US-PGPUB; USPAT	OR	OFF	2008/12/02 11:16
S79	571	(524/521).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/12/02 11:29
S80	1509	(524/555).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/12/02 11:29
S81	302	(524/800).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/12/02 11:29
S82	126	(524/815).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/12/02 11:30
S83	492	(210/723).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/12/02 11:30
S84	713	(210/724).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/12/02 11:30
S85	628	(210/734).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/12/02 11:30
S86	392	(210/735).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/12/02 11:30
S87	575	(210/728).CCLS.	US-PGPUB; USPAT	OR	OFF	2008/12/02 11:30



S88	37	(Gauweiler near5 Werner).in. OR (Ledu near5 Marcin).in. OR (Christoffels near5 Lysanderin).in. OR (Gotsche near5 Michaelin).in. OR (Wood near5 Claudia).in.	US-PGPUB; USPAT	OR	OFF	2008/12/02 11:33
S89	26	(S88) AND (amphoteric)	US-PGPUB; USPAT	OR	OFF	2008/12/02 11:33
S90	24	(S88) AND (amphoteric)	US-PGPUB	OR	OFF	2008/12/02 11:34
S91	2	(S88) AND (amphoteric).clm.	US-PGPUB	OR	OFF	2008/12/02 11:34
S92	0	(S88) AND (amphoteric).clm.	USPAT	OR	OFF	2008/12/02 11:35
S93	578	(524/521).CQLS.	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:55
S94	1539	(524/555).CQLS.	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:55
S95	317	(524/800).CQLS.	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:55
S96	506	(210/723).CQLS.	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:55
S97	723	(210/724).CQLS.	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:55
S98	633	(210/734).CQLS.	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:55
S99	581	(210/728).CQLS.	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:55
S100	38	(Gauweiler near5 Werner).in. OR (Ledu near5 Marcin).in. OR (Chrisstoffels near5 Lysanderin).in. OR (Gotsche near5 Michaelin).in. OR (Wood near5 Claudia).in.	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:55
S101	27	(S100) AND (amphoteric)	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:56

S102	25	(S100) AND (amphoteric)	US-PGPUB	OR	OFF	2009/06/16 09:56
S103	2	(S100) AND (amphoteric).dm.	US-PGPUB	OR	OFF	2009/06/16 09:56
S104	0	(S100) AND (amphoteric).dm.	USPAT	OR	OFF	2009/06/16 09:56
S105	15650	(BASF).as.	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:56
S106	38	(Gauweiler near5 Werner).in. OR (Ledu near5 Marcin). in. OR (Christoffels near5 Lysanderin).in. OR (Gotsche near5 Michaelin).in. OR (Wood near5 Claudia).in.	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:56
S107	30	(S105) AND (S106)	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:56
S108	4617	(vinyl near5 formamide) OR (vinylformamide)	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:56
S109	201	(amphoteric near5 dispersion)	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:56
S110	11	(S108) AND (S109)	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:56
S111	8	(cationic adj (polymer or resin)) AND (salt) AND (amphoteric near5 disersion OR (dispersing near5 agent)) AND (dimethylaminoethylacrylate SAME acrylate)	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:56
S112	33	(dispersant OR (dispersing adj agent) OR (protective near5 colloid) OR (surfactant)) SAME (dimethylaminoethyl near5 methacrylamide) SAME (acrylate)	US-PGPUB; USPAT	OR	ON	2009/06/16 09:56
S113	1	(cationic near5 (copolymer or polymer or resin)) AND (amphoteric near5 ((dispersant OR (dispersing near5 agent)) SAME dimethylaminoethylmethacrylamide))	US-PGPUB; USPAT	OR	ON	2009/06/16 09:56
S114	199	(( amphoteric SAME ((dispersant) OR (dispersing near5 agent))) AND (cationic near5 (polymer or resin))	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:56

S115	24	(dimethylaminoethylacrylate) SAME (dispersant)	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:56
S116	24	(dimethylaminoethylacrylate) SAME (dispersant)	US-PGPUB; USPAT	OR	OFF	2009/06/16 09:57
S117	848	((amphoteric) near5 ((dispersant) OR (dispersing near5 agent)))	US-PGPUB; USPAT	OR	ON	2009/06/16 09:57
S118	119	((amphoteric) near5 ((dispersant) OR (dispersing near5 agent) OR (surfactant)) SAME (negativ\$3 near5 charge\$2) SAME (advantage benefit function use usage gain improve improvement enhance enhancement develop development assist assistance (help)))	US-PGPUB; USPAT	OR	ON	2009/06/16 09:57
S123	36653	("3-methyl-1-vinylimidazolium" adj chloride) OR (methyl near3 vinylimidazolium near3 chloride) OR ("3-methyl-1-vinylimidazolium" near2 methosulfate) OR (methyl near2 vinylimidazolium near2 methosulfate) OR (dimethyldiallylammonium near2 chloride) OR (dimethyl near2 diallyl near2 ammonium near2 chloride) OR (dimethyl near2 diallylammonium near2 chloride) OR (dimethyldiallyl near2 ammonium near2 chloride) OR ("N,N-dimethylaminoethyl" near2 methacrylate) OR ("N,N-dimethylaminoethyl" near2 "(meth)acrylate") OR (dimethylaminoethyl near2 methacrylate) OR ("dimethylaminoethyl" near2 "(meth)acrylate") OR (dimethyl near2 sulfate) OR (diethyl near2 sulfate) OR ("N-[3-(dimethylamino)propyl] methacrylamide") OR ("N-[3-(dimethylamino)propyl] (meth)acrylamide") OR (dimethylamino near2 propyl near2 methacrylamide) OR (dimethylamino near2 propyl near2 "(meth)acrylamide")	US-PGPUB; USPAT	OR	ON	2010/08/02 09:54

S128	500830	("N-vinylactam" OR (vinylactam) OR (vinyl near2 lactam) OR ("N-vinyl" near2 lactam) OR ("N-vinylacetamide") OR (vinylacetamide) OR ("N-vinylformamide") OR (vinylformamide) OR ("N-methyl-N-vinylacetamide") OR (methyl near2 vinylacetamide) OR (acrylamide) OR (methacrylamide) OR ("methacrylamide") OR ("N,N-dimethylacrylamide") OR (dimethylacrylamide) OR ("N-methylolmethacrylamide") OR (methylolmethacrylamide) OR ("N-vinylloxazolidone") OR (vinylloxazolidone) OR ("N-vinyltriazole") OR (vinyltriazole) OR (vinyl near2 triazole) OR (hydroxyalkyl near2 "(meth)acrylate") OR (hydroxyalkyl near2 methacrylate) OR (hydroxyalkyl near2 acrylate) OR (alkylethylene near2 glycol near2 "(meth)acrylate") OR (alkylethylene near2 glycol near2 methacrylate) OR (alkylethylene near2 glycol near2 acrylate) OR (butadiene) OR (vinylcyclohexane) OR (vinyl near2 cyclohexane) OR (acrylonitrile) OR (acrylate) OR (acrylamide) OR (methacrylic near2 acid) OR (crotonic near2 acid) OR (itaconic near2 acid) OR (maleic near2 acid) OR (maleic near2 anhydride) OR (crotonic near2 anhydride) OR (itaconic near2 anhydride) OR (fumaric near2 acid) OR (fumaric near2 anhydride) OR (acrylamidomethylpropanesulfonic near2 acid) OR (acrylamidomethylpropane near2 sulfonic near2 acid) OR (acrylamidomethyl near2 propane near2 sulfonic near2 acid))	US-PGPUB; USPAT	OR	ON	2010/08/02 10:05
S129	26503	S128 AND S123	US-PGPUB; USPAT	OR	ON	2010/08/02 10:06
S130	76460	((water near2 soluble near2 (polymer OR copolymer OR resin)) OR (water near2 swell\$4 near2 cationic near2 (polymer OR copolymer OR resin)))	US-PGPUB; USPAT	OR	ON	2010/08/02 10:07
S131	8140	S128 AND S123 AND S130	US-PGPUB; USPAT	OR	ON	2010/08/02 10:07

S133	444	(amphoteric near2 dispersing near2 agent) OR (amphoteric near2 dispersant)	US-PGPUB; USPAT	OR	ON	2010/08/02 10:09
S134	32826	(free near2 radical\$4 near2 polymeriz\$5)	US-PGPUB; USPAT	OR	ON	2010/08/02 10:10
S135	4	S128 AND S123 AND S130 AND S134 AND S133	US-PGPUB; USPAT	OR	ON	2010/08/02 10:10
S136	62709	(amphoteric near2 dispersing near2 agent) OR (amphoteric near2 dispersant) OR (amphoteric\$4)	US-PGPUB; USPAT	OR	ON	2010/08/02 10:11
S137	576	S128 AND S123 AND S130 AND S134 AND (S133 OR S136)	US-PGPUB; USPAT	OR	ON	2010/08/02 10:11
S138	62	S137 AND (S128).ab.	US-PGPUB; USPAT	OR	ON	2010/08/02 10:11
S139	59	S137 AND (S128).ab. AND (salt)	US-PGPUB; USPAT	OR	ON	2010/08/02 10:12
S140	61	S137 AND (S130).ab.	US-PGPUB; USPAT	OR	ON	2010/08/02 10:24
S141	36653	("3-methyl-1-vinylimidazolium" adj chloride) OR (methyl near3 vinylimidazolium near3 chloride) OR ("3- methyl-1-vinylimidazolium" near2 methosulfate) OR (methyl near2 vinylimidazolium near2 methosulfate) OR (dimethyldiallylammonium near2 chloride) OR (dimethyl near2 diallyl near2 ammonium near2 chloride) OR (dimethyl near2 diallylammonium near2 chloride) OR (dimethyldiallyl near2 ammonium near2 chloride) OR ("N,N-dimethylaminoethyl" near2 methacrylate) OR ("N,N-dimethylaminoethyl" near2 "(meth)acrylate") OR (dimethylaminoethyl near2 methacrylate) OR ("dimethylaminoethyl" near2 "(meth) acrylate") OR (dimethyl near2 sulfate) OR (diethyl near2 sulfate) OR ("N-[3-(dimethylamino)propyl] methacrylamide") OR ("N-[3-(dimethylamino)propyl] (meth)acrylamide") OR (dimethylamino near2 propyl near2 methacrylamide) OR (dimethylamino near2 propyl near2 "(meth)acrylamide")	US-PGPUB; USPAT	OR	ON	2010/08/02 10:33

S142	500830	("N-vinylactam") OR (vinylactam) OR (vinyl near2 lactam) OR ("N-vinyl" near2 lactam) OR ("N-vinylacetamide") OR (vinylacetamide) OR ("N-vinylformamide") OR (vinylformamide) OR ("N-methyl-N-vinylacetamide") OR (methyl near2 vinylacetamide) OR (acrylamide) OR (methacrylamide) OR ("methacrylamide") OR ("N,N-dimethylacrylamide") OR (dimethylacrylamide) OR ("N-methylolmethacrylamide") OR (methylolmethacrylamide) Or ("N-vinylloxazolidone") OR (vinylloxazolidone) OR ("N-vinyltriazole") OR (vinyltriazole) OR (vinyl near2 triazole) OR (hydroxyalkyl near2 "(meth)acrylate") OR (hydroxyalkyl near2 methacrylate) OR (hydroxyalkyl near2 acrylate) OR (alkylethylene near2 glycol near2 "(meth)acrylate") OR (alkylethylene near2 glycol near2 methacrylate) OR (alkylethylene near2 glycol near2 acrylate) OR (butadiene) OR (vinylcyclohexane) OR (vinyl near2 cyclohexane) OR (acrylonitrile) OR (acrylate) OR (acrylamide) OR (methacrylic near2 acid) OR (crotonic near2 acid) OR (itaconic near2 acid) Or (maleic near2 acid) OR (maleic near2 anhydride) OR (crotonic near2 anhydride) OR (itaconic near2 anhydride) OR (fumaric near2 acid) OR (fumaric near2 anhydride) OR (acrylamidomethylpropanesulfonic near2 acid) OR (acrylamidomethylpropane near2 sulfonic near2 acid) OR (acrylamidomethyl near2 propane near2 sulfonic near2 acid)	US-PGPUB; USPAT	OR	ON	2010/08/02 10:33
S143	76460	((water near2 soluble near2 (polymer OR copolymer Or resin)) OR (water near2 swell\$4 near2 cationic near2 (polymer Or copolymer OR resin)))	US-PGPUB; USPAT	OR	ON	2010/08/02 10:33
S144	444	(amphoteric near2 dispersing near2 agent) OR (amphoteric near2 dispersant)	US-PGPUB; USPAT	OR	ON	2010/08/02 10:33
S145	32826	(free near2 radical\$4 near2 polymeriz\$5)	US-PGPUB; USPAT	OR	ON	2010/08/02 10:33

S146	62709	(amphoteric near2 dispersing near2 agent) OR (amphoteric near2 dispersant) OR (amphoteric\$4)	US-PGPUB; USPAT	OR	ON	2010/08/02 10:33
S147	576	S142 AND S141 AND S143 AND S145 AND (S144 OR S146)	US-PGPUB; USPAT	OR	ON	2010/08/02 10:33
S148	61	S147 AND (S143).ab.	US-PGPUB; USPAT	OR	ON	2010/08/02 10:33
S149	59	S147 AND (S142).ab. AND (salt)	US-PGPUB; USPAT	OR	ON	2010/08/02 10:33
S150	62709	(amphoteric near2 dispersing near2 agent) OR (amphoteric near2 dispersant) OR (amphoteric\$4) OR (amphoteric near5 protect\$4 near2 colloid)	US-PGPUB; USPAT	OR	ON	2010/08/02 10:54
S151	576	S142 AND S141 AND S143 AND S145 AND (S144 OR S146 OR S150)	US-PGPUB; USPAT	OR	ON	2010/08/02 10:54
S152	61	S151 AND (S143).ab.	US-PGPUB; USPAT	OR	ON	2010/08/02 10:55
S153	576	S151	US-PGPUB; USPAT	OR	ON	2010/08/02 10:55
S154	515	S153 NOT S152	US-PGPUB; USPAT	OR	ON	2010/08/02 10:55
S155	431	S154 AND (S144 OR S150) with (anionic)	US-PGPUB; USPAT	OR	ON	2010/08/02 11:31
S156	0	S155 NOT S154	US-PGPUB; USPAT	OR	ON	2010/08/02 11:31
S157	40	S142 AND S141 AND S143 AND S145 AND (anionic near5 protective near2 colloid)	US-PGPUB; USPAT	OR	ON	2010/08/02 11:54
S158	27	S157 NOT (S154 OR S155)	US-PGPUB; USPAT	OR	ON	2010/08/02 11:54
S159	24	S142 AND S141 AND S143 AND S145 AND ((zwitter \$2ionic\$3 OR zwitter near2 ion\$3) with (negative))	US-PGPUB; USPAT	OR	ON	2010/08/02 12:25
S160	1	("5934839").PN.	US-PGPUB; USPAT	OR	OFF	2010/08/02 14:16

S161	322	(Mallon near5 Joseph).in. OR (Farinato near5 Raymond).in. OR (Rosati near5 Louis).in. OR (Freeman near5 John).in.	US-PGPUB; USPAT	OR	ON	2010/08/02 14:17
S162	325	(cytotechnology).as. OR (cytec near5 technology).as.	US-PGPUB; USPAT	OR	ON	2010/08/02 14:18
S163	625	(S161 OR S162)	US-PGPUB; USPAT	OR	ON	2010/08/02 14:18
S164	36653	("3-methyl-1-vinylimidazolium" adj chloride) OR (methyl near3 vinylimidazolium near3 chloride) OR ("3-methyl-1-vinylimidazolium" near2 methosulfate) OR (methyl near2 vinylimidazolium near2 methosulfate) OR (dimethyldiallylmonium near2 chloride) OR (dimethyl near2 diallyl near2 ammonium near2 chloride) OR (dimethyl near2 diallylmonium near2 chloride) OR (dimethyldiallyl near2 ammonium near2 chloride) OR ("N,N-dimethylaminoethyl" near2 methacrylate) OR ("N,N-dimethylaminoethyl" near2 "(meth)acrylate") OR (dimethylaminoethyl near2 methacrylate) OR ("dimethylaminoethyl" near2 "(meth)acrylate") OR (dimethyl near2 sulfate) OR (diethyl near2 sulfate) OR ("N-[3-(dimethylamino)propyl] methacrylamide") OR ("N-[3-(dimethylamino)propyl] (meth)acrylamide") OR (dimethylamino near2 propyl near2 methacrylamide) OR (dimethylamino near2 propyl near2 "(meth)acrylamide")	US-PGPUB; USPAT	OR	ON	2010/08/02 14:18
S165	76460	((water near2 soluble near2 (polymer OR copolymer Or resin)) OR (water near2 swell\$4 near2 cationic near2 (polymer Or copolymer OR resin)))	US-PGPUB; USPAT	OR	ON	2010/08/02 14:18
S166	40	(S161 OR S162) AND (cationic) near5 (polymer) AND S164 AND S165	US-PGPUB; USPAT	OR	ON	2010/08/02 14:18
S167	23	(S161 OR S162) AND (cationic) near5 (polymer) AND S164 AND S165 AND (amphoteric Or dispersant OR dispersing near2 agent)	US-PGPUB; USPAT	OR	ON	2010/08/02 14:19
S168	23	(S161 OR S162) AND (cationic) near5 (polymer) AND S164 AND S165 AND (amphoteric Or dispersant OR dispersing near2 agent) AND (salt)	US-PGPUB; USPAT	OR	ON	2010/08/02 14:20



S169	22	("3298982"   "3578587"   "3692673"   "4224149"   "4497596"   "4525515"   "4549967"   "4592931"   "4690589"   "4711727"   "4956092"   "5154857"   "5326479"   "5330656"   "5405425"   "5585034"   "5614602"   "5707533").PN. OR ("5934839").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/08/02 14:36
S170	45	S169 NOT S168 OR S167	US-PGPUB; USPAT; USOCR	OR	OFF	2010/08/02 14:36
S171	22	S169 NOT (S168 OR S167)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/08/02 14:36
S172	1	(S171) AND (cationic) near5 (polymer) AND S164 AND S165 AND (amphoteric Or dispersant OR dispersing near2 agent) AND (salt)	US-PGPUB; USPAT	OR	ON	2010/08/02 14:37
S173	44	(Gauweiler near5 Werner).in. OR (Ledu near5 Marcin).in. OR (Christoffels near5 Lysanderin).in. OR (Gotsche near5 Michaelin).in. OR (Wood near5 Claudia).in.	US-PGPUB; USPAT	OR	OFF	2010/08/02 14:37
S174	44	S173 NOT (S171 Or S170 Or S169)	US-PGPUB; USPAT	OR	OFF	2010/08/02 14:38
S175	25	(S174) AND (cationic) near5 (polymer) AND S164 AND S165 AND (amphoteric Or dispersant OR dispersing near2 agent) AND (salt)	US-PGPUB; USPAT	OR	ON	2010/08/02 14:38
S176	500830	("N-vinylactam") OR (vinylactam) OR (vinyl near2 lactam) OR ("N-vinyl" near2 lactam) OR ("N-vinylacetamide") OR (vinylacetamide) OR ("N-vinylformamide") OR (vinylformamide) OR ("N-methyl-N-vinylacetamide") OR (methyl near2 vinylacetamide) OR (acrylamide) OR (methacrylamide) OR ("methacrylamide") OR ("N,N-dimethylacrylamide") OR (dimethylacrylamide) OR ("N-methylolmethacrylamide") OR (methylolmethacrylamide) Or ("N-vinylloxazolidone") OR (vinylloxazolidone) OR ("N-vinyltriazole") OR (vinyltriazole) OR (vinyl near2 triazole) OR (hydroxyalkyl near2 "(meth)acrylate") OR (hydroxyalkyl near2 methacrylate) OR (hydroxyalkyl near2 acrylate) OR (alkylethylene near2 glycol near2	US-PGPUB; USPAT	OR	ON	2010/08/02 14:46

		"(meth)acrylate") OR (alkylethylene near2 glycol near2 methacrylate) OR (alkylethylene near2 glycol near2 acrylate) OR (butadiene) OR (vinylcyclohexane) OR (vinyl near2 cyclohexane) OR (acrylonitrile) OR (acrylate) OR (acrylamide) OR (methacrylic near2 acid) OR (crotonic near2 acid) OR (itaconic near2 acid) Or (maleic near2 acid) OR (maleic near2 anhydride) OR (crotonic near2 anhydride) OR (itaconic near2 anhydride) OR (fumaric near2 acid) OR (fumaric near2 anhydride) OR (acrylamidomethylpropanesulfonic near2 acid) OR (acrylamidomethylpropane near2 sulfonic near2 acid) OR (acrylamidomethyl near2 propane near2 sulfonic near2 acid)				
S177	32826	(free near2 radical\$4 near2 polymeriz\$5)	US-PGPUB; USPAT	OR	ON	2010/08/02 14:46
S178	35	S176 AND S164 AND S165 AND S177 AND (ampholytic) near5 (anionic)	US-PGPUB; USPAT	OR	ON	2010/08/02 14:46
S179	90	S176 AND S164 AND S165 AND S177 AND (ampholytic Or polyamphoteric OR amphoteric) AND (BASF).as	US-PGPUB; USPAT	OR	ON	2010/08/02 14:49
S180	70	S179 NOT (S173)	US-PGPUB; USPAT	OR	ON	2010/08/02 14:49
S181	1	"10/525587"	US-PGPUB; USPAT	OR	OFF	2010/08/02 15:16
S182	1	"12/186777"	US-PGPUB; USPAT	OR	OFF	2010/08/02 15:22
S183	1	"12/074253"	US-PGPUB; USPAT	OR	OFF	2010/08/02 15:46
S184	1	S183 AND (flexograph\$4 Or grature)	US-PGPUB; USPAT	OR	OFF	2010/08/02 15:47
S185	1	("4963598").PN.	US-PGPUB; USPAT	OR	OFF	2010/08/02 16:09
S186	10	(alphasan\$ near "RC2000")	US-PGPUB; USPAT	OR	OFF	2010/08/02 16:29

S187	308	(alphanas\$)	US-PGPUB; USPAT	OR	OFF	2010/08/02 16:29
S188	46	(alphanas\$) near5 ("2000" OR "RC2000" OR "RC-2000")	US-PGPUB; USPAT	OR	OFF	2010/08/02 16:29
S189	46	(alphanas\$) near5 ("2000" OR "RC2000" OR "RC-2000")	US-PGPUB; USPAT	OR	ON	2010/08/02 16:30
S190	7	(alphanas\$) near5 ("2000" OR "RC2000" OR "RC-2000") AND (polycarbonate Or PC)	US-PGPUB; USPAT	OR	ON	2010/08/02 16:30
S191	14	(alphanas\$) near5 ("2000" OR "RC2000" OR "RC-2000" Or "5000" Or "RC-5000" OR "RC5000") AND (polycarbonate Or PC)	US-PGPUB; USPAT	OR	ON	2010/08/02 16:31
S192	30	(alphanas\$) AND (polycarbonatE)	US-PGPUB; USPAT	OR	ON	2010/08/02 16:31
S193	268	(alphanas\$) near5 ("2000" OR "RC2000" OR "RC-2000" Or "5000" Or "RC-5000" OR "RC5000") OR ("RC-2000" OR "Rc" near2 "2000" OR "RC2000" Or "RC-5000" OR "Rc" near2 "5000" OR "RC5000")	US-PGPUB; USPAT	OR	ON	2010/08/02 16:34
S194	258072	S193 NAD (polycarbonatE)	US-PGPUB; USPAT	OR	ON	2010/08/02 16:34
S195	26	S193 and (polycarbonatE)	US-PGPUB; USPAT	OR	ON	2010/08/02 16:35
S196	0	(milliken).as. AND (phosphate) AND ("Ag") AND ("Zr")	US-PGPUB; USPAT	OR	ON	2010/08/02 16:35
S197	186	(milliken).as. AND (phosphate)	US-PGPUB; USPAT	OR	ON	2010/08/02 16:35
S198	14	(milliken).as. AND (phosphate) AND( polycarbonatE)	US-PGPUB; USPAT	OR	ON	2010/08/02 16:36
S199	169	(milliken).as. AND (anti\$2bacter\$4 OR biocide OR biocidal Or anti\$2microb\$4)	US-PGPUB; USPAT	OR	ON	2010/08/02 16:37
S200	0	(milliken).as. AND (anti\$2bacter\$4 OR biocide OR biocidal Or anti\$2microb\$4) AND (polyarbonatE)	US-PGPUB; USPAT	OR	ON	2010/08/02 16:37
S201	15	(milliken).as. AND (anti\$2bacter\$4 OR biocide OR biocidal Or anti\$2microb\$4) AND (polycarbonatE)	US-PGPUB; USPAT	OR	ON	2010/08/02 16:37

S202	1	(silver near sodium near2 zirconium near3 phosphate) with (structure or formula) AND (anti\$2bacter\$4 OR biocide OR biocidal Or anti\$2microb\$4) AND (polycarbonatE)	US-PGPUB; USPAT	OR	ON	2010/08/02 16:39
S203	9939	(silver near sodium near2 zirconium near3 phosphate) w AND (anti\$2bacter\$4 OR biocide OR biocidal Or anti\$2microb\$4) AND (polycarbonatE)	US-PGPUB; USPAT	OR	ON	2010/08/02 16:39
S204	1404451	(silver near sodium near2 zirconium near3 phosphate) AND (anti\$2bacter\$4 OR biocide OR biocidal Or anti\$2microb\$4) AND (polycarbonatE)	US-PGPUB; USPAT	OR	ON	2010/08/02 16:39
S205	12	(silver near sodium near2 zirconium near3 phosphate) AND (anti\$2bacter\$4 OR biocide OR biocidal Or anti\$2microb\$4) AND (polycarbonatE)	US-PGPUB; USPAT	OR	ON	2010/08/02 16:39
S206	0	(silver near sodium near2 zirconium near3 phosphate) AND (ciba).as.	US-PGPUB; USPAT	OR	ON	2010/08/02 16:40
S207	87	(silver near sodium near2 zirconium near3 phosphate)	US-PGPUB; USPAT	OR	ON	2010/08/02 16:40
S208	31	(milliken).as. AND (anti\$2bacter\$4 OR biocide OR biocidal Or anti\$2microb\$4).ab. AND (structure OR formula)	US-PGPUB; USPAT	OR	ON	2010/08/02 16:45
S209	10	("4938955"   "5405644"   "5556699"   "5750609"   "6454813"   "6544621").PN. OR ("6641842").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/08/02 16:47
S210	0	(silver) near3 (phosphate) and (anti\$2bacter\$4 OR biocide OR biocidal Or anti\$2microb\$4) AND (polyarbonatE)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/08/02 16:48
S211	139	(silver) near3 (phosphate) and (anti\$2bacter\$4 OR biocide OR biocidal Or anti\$2microb\$4) AND (polycarbonatE)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/08/02 16:48
S212	11	(silver) near3 (phosphate) near3 (sodium) and (anti\$2bacter\$4 OR biocide OR biocidal Or anti\$2microb\$4) AND (polycarbonatE)	US-PGPUB; USPAT; USOCR	OR	OFF	2010/08/02 16:49
S213	0	"JP 1022177"	EPO; JPO; DERWENT	OR	OFF	2010/08/02 16:53

S214	2	"JP 10221177"	EPO; JPO; DERWENT	OR	OFF	2010/08/02 16:53
S217	212	sodium with phosphate with zirconium with silver	US-PGPUB; USPAT	OR	ON	2010/08/03 07:10
S218	1524	(milliken).as.	US-PGPUB; USPAT	OR	ON	2010/08/03 07:10
S219	7	S218 AND S217	US-PGPUB; USPAT	OR	ON	2010/08/03 07:10
S220	26	S218 AND (silver) SAME (structure OR formula)	US-PGPUB; USPAT	OR	ON	2010/08/03 07:11
S221	133	S218 AND (antimicrobial)	US-PGPUB; USPAT	OR	ON	2010/08/03 07:12
S222	53	S218 AND (antimicrobial) AND (formula)	US-PGPUB; USPAT	OR	ON	2010/08/03 07:12
S223	6	S218 AND (antimicrobial) AND (formula) SAME (silver)	US-PGPUB; USPAT	OR	ON	2010/08/03 07:12
S224	3	((("5926238") or ("5441717") or ("5698229"))).PN.	US-PGPUB; USPAT	OR	OFF	2010/08/03 07:14
S225	49	("1170056"   "2157861"   "3416884"   "3988647"   "4025608"   "4059679"   "4567157"   "4906464"   "4933178"   "4938955"   "4938958"   "5296238"   "5405644").PN. OR ("5441717"   "5698229").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/08/03 07:16
S226	257	(toagosei).as.	US-PGPUB; USPAT	OR	OFF	2010/08/03 07:23
S227	18	(toagosei).as. AND (antimicrobial)	US-PGPUB; USPAT	OR	OFF	2010/08/03 07:23
S228	18	(toagosei).as. AND (antimicrobial)	US-PGPUB; USPAT	OR	ON	2010/08/03 07:23
S229	55	("1170056"   "2157861"   "3416884"   "4025608"   "4059679"   "4567157"   "4906464"   "4938955"   "4938958"   "5296238").PN. OR ("5296238"   "5441717"   "6475631").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/08/03 08:10

S230	8	(toagosei).as. AND (antimicrobial) AND (phosphate)	US-PGPUB; USPAT	OR	OFF	2010/08/03 08:13
S231	8	(toagosei).as. AND (antimicrobial) AND (phosphate)	US-PGPUB; USPAT	OR	ON	2010/08/03 08:13
S233	4422	(toagosei).as.	EPO; JPO; DERWENT	OR	ON	2010/08/03 08:19
S234	40	(toagosei).as. AND (silver Or "Ag") AND (phosphate)	EPO; JPO; DERWENT	OR	ON	2010/08/03 08:19
S235	1	"10/542732"	US-PGPUB; USPAT	OR	OFF	2010/08/03 08:21

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